Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/519,498	FIGUERAS ET AL.		
Examiner	Art Unit		
JENNIFER A. SMITH	1793		

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The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence add	ress	
THE REPLY FILED 08 March 2010 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.				
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Apperfor Continued Examination (RCE) in compliance with 37 Comperiods:	the same day as filing a Notice of A replies: (1) an amendment, affidavited al (with appeal fee) in compliance	Appeal. To avoid abar t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request	
a) The period for reply expires <u>4</u> months from the mailing date				
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(the content of the content of th	ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE ').	g date of the final rejection FIRST REPLY WAS FII	n. LED WITHIN TWO	
Extensions of time may be obtained under 37 CFR 1.136(a). The date whave been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of hortened statutory period for reply original controls.	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as	
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the		
	t maio a to the plate of filing a bailet	وط لومسوم وطعوم النب		
3. The proposed amendment(s) filed after a final rejection, k (a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE beloge) (c) They are not deemed to place the application in bether the second seco	nsideration and/or search (see NOT w);	TE below);		
appeal; and/or	ter form for appear by materially rec	adding of simplifying th	ie issues ioi	
(d) They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).				
4. ☐ The amendments are not in compliance with 37 CFR 1.125. ☐ Applicant's reply has overcome the following rejection(s):		mpliant Amendment (I	PTOL-324).	
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	·	•	_	
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed:		l be entered and an ex	xplanation of	
Claim(s) allowed Claim(s) objected to: Claim(s) rejected: <u>1-3,6-8 and 29-43</u> .				
Claim(s) withdrawn from consideration: <u>9-28</u> . AFFIDAVIT OR OTHER EVIDENCE				
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 				
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea and was not earlier presented. Se	al and/or appellant fails see 37 CFR 41.33(d)(1)	s to provide a	
10.	n of the status of the claims after er	ntry is below or attach	ed.	
 The request for reconsideration has been considered but See Continuation Sheet. 	does NOT place the application in	condition for allowan	ce because:	
12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (13. ☒ Other: <u>See Continuation Sheet</u>.	PTO/SB/08) Paper No(s)			
/J.A. LORENGO/				
Supervisory Patent Examiner, Art Unit 1793				

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments filed 03/08/2010 have been fully considered but they are not persuasive. Applicants argue the supplemental after-final amendments, submitted 03/08/2010, overcome the rejections based on the Vaudagna reference. Applicants have amended the claims to limit the amount of tetrahedral tungsten to between 15-25% by weight based on the total mass of the support. Applicants argue Vaudagna et al. discloses that if more than 15 wt% of tungsten is deposited on the support, the tungsten is both in tetrahedral and octahedral form. While this is true of the teachings of Vaudagna et al., the crystal structure of the tungsten is more closely related to the surface density.

For reference, Barton et al. (J. Phys. Chem., 1999) is cited. In Section 3.3, Barton teaches the connectivity and symmetry of WOx on the surface of zirconia is dependent upon surface densities. Scheme 1 (page 635) demonstrates the evolution of octahedral WOx species on zirconia surfaces with increasing WOx surface density. At low surface densities (0-4 W/nm), the tungsten is in a tetrahedral formation. Therefore the newly amended claims (based on weight percents), would not necessarily overcome the teachings in the art, which are based on surface densities.

Continuation of 13. Other: Interview Summary (02/19/2010) and Notice of References Cited PTO Form-892 are attached.